



ARNOWA for AIoT-Driven Landscaping & Irrigation

Smart Green Spaces. Optimised
Water Use. Resilient Ecosystems.

Transform Your Landscapes with Intelligence

Landscapes and green spaces require precise water management, climate adaptation, and operational efficiency. Arnowa's AIoT platform integrates smart sensors, automated irrigation controls, and predictive analytics to optimise water usage, reduce maintenance costs, and ensure thriving landscapes across commercial, municipal, and residential sites.

Core Capabilities

Soil & Moisture Intelligence

- Real-time soil moisture monitoring across all zones
- Smart irrigation schedules based on vegetation type, soil, and sunlight
- Early detection of dry spots or overwatering

Weather-Adaptive Irrigation

- AI-driven integration of weather station data and forecasts
- Automatic adjustments to watering schedules based on current and predicted conditions
- Reduces water waste while maintaining optimal plant health

Zonal Control & Automation

- Independent control of each irrigation zone through a centralised platform
- Dynamic load management for energy-efficient pump operation
- Flexible irrigation planning for different landscape types

Leak Detection & System Health

- Pressure and flow sensors identify leaks or anomalies early
- Minimises water loss, maintenance costs, and operational downtime
- Continuous monitoring of irrigation infrastructure

Energy & Resource Efficiency

- Optimised pump operation for reduced energy consumption
- Smart water metering and reporting to track usage
- Supports ESG and sustainability KPIs

Insights & Reporting

- Consolidated dashboards for performance, water savings, and efficiency
- Exportable reports for operational and sustainability audits
- Actionable analytics for continuous improvement

A Few Use Cases



Urban Parks & Green Spaces

- Optimise irrigation across large public parks and streetscapes.
- Monitor soil, water, and energy usage for sustainability compliance.



Golf Courses & Sports Fields

- Maintain turf quality with precise moisture and nutrient management.
- Schedule irrigation based on weather forecasts and field usage.



Corporate Campuses & Educational Institutions

- Centralised control for lawns, gardens, and landscape features
- Integrate energy-efficient pumps and IoT sensors for operational insights



Residential & Commercial Landscapes

- Automate watering for gardens, lawns, and green roofs
- Reduce water waste and improve plant health with real-time monitoring.



Agricultural Research & Controlled Farms

- Manage experimental plots, greenhouses, and high-value crops.
- Ensure consistent microclimate and resource optimisation.



Industrial & Institutional Grounds

- Automated irrigation and leak detection across large facility perimeters
- Track water and energy efficiency for ESG reporting and cost savings



Benefits at a Glance

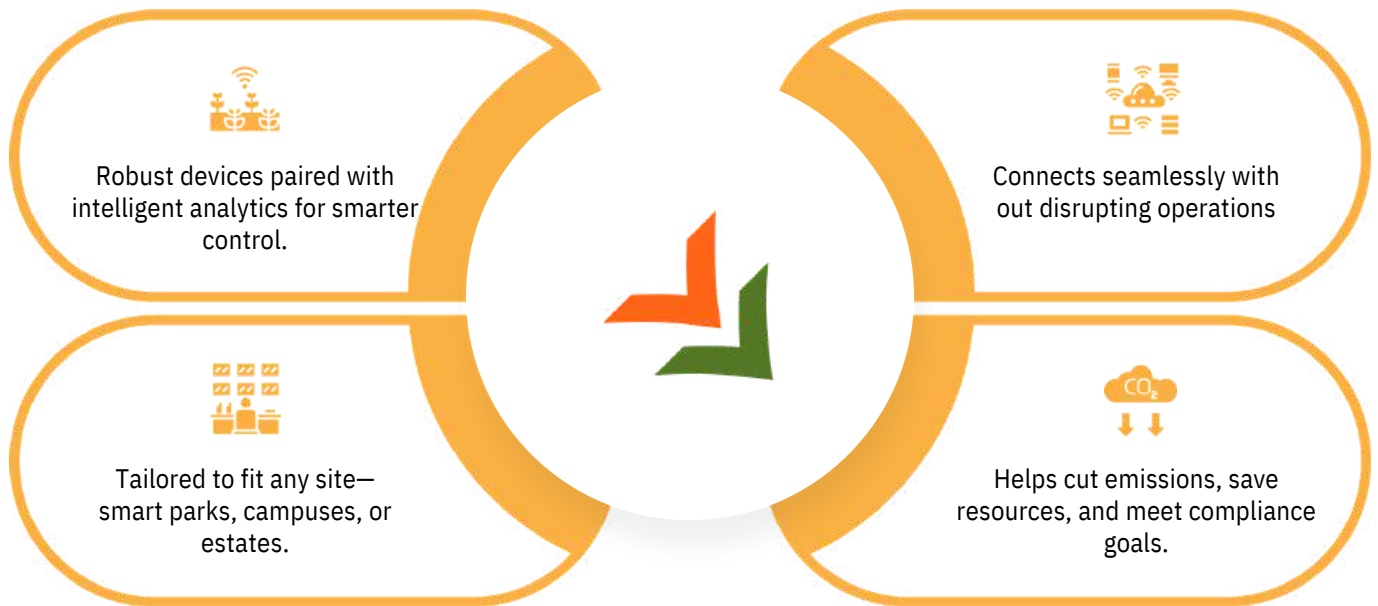
- **AI-Optimised Irrigation** – Smart adjustments using predictive weather and soil data.
- **Resource Transparency** – Track water, energy, and operational efficiency across zones.
- **Preventive Alerts** – Early detection of leaks, equipment faults, or abnormal conditions.
- **Sustainability Reporting** – Automated dashboards and reports for ESG compliance.
- **Enhanced Plant Health** – Maintain optimal soil and microclimate conditions for diverse vegetation.
- **Seamless Integration** – Works with sensors, smart meters, weather stations, and existing landscape systems.

Tech Integration

- IoT × AI platform
- Cloud & edge computing
- Smart soil moisture & environmental sensors
- Weather station integration
- Flow & pressure monitoring
- Centralised dashboards for remote control



Why Choose Arnowa?



Let Your Landscapes Think for Themselves.

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AUSTRALIAN MADE


PREFERRED SUPPLIER



Arnowa's AIoT Ecosystem is the next step in making landscapes greener, smarter, and more sustainable.